BROAN®

CENTRAL VACUUM POWER UNIT

⚠ HOUSEHOLD TYPE ⚠

CX450 & CXKIT450A

MODEL NO. SFDB-DA

HOMEOWNERS OPERATING INSTRUCTIONS
READ AND SAVE THESE INSTRUCTIONS

Broan-NuTone Canada Inc.;
Mississauga, Ontario
www.broan.ca
888-882-7626
To register this product, visit www.broan.ca

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30042423 Rev. E

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE.

When using an electric appliance, basic precautions should always be followed, including the following:

WARNING ⚠

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR PERSONAL INJURY:

- Do not use on wet surfaces or outdoors.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
- Keep hair, loose clothing, fingers and all parts of body away from openings and moving parts.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not use without dustbag or filter in place.
- Do not use to blow leaves or debris.
- Do not vacuum liquids or fine powders (such as drywall dust).
- Do not put any object on the unit.
- Ensure air flows freely to both side intake vents and exhausts unobstructed from top outlet.
- Do not install the unit horizontally.
- Do not use the pail as a wash pail.
- Do not use the pail as a stool.
- Turn off all controls before unplugging.
- Use extra care when cleaning on stairs.
- Avoid picking up sharp objects.
- Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
- Do not use with damaged cord or plug. If appliance is not working as it should, if it has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
- Do not unplug the unit by pulling on cord. To unplug, grasp the plug, not the cord.
- Do not handle plug or appliance with wet hands.
- Connect to a properly grounded outlet only. See grounding instructions on page 9.
- Any servicing other than that recommended in this manual should be performed by an authorized service facility.
- We recommend that your unit be inspected by a specialized technician once a year.

SAVE THESE INSTRUCTIONS

1. OPERATION

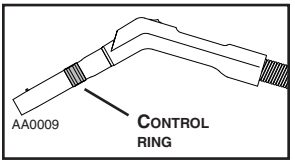
The power unit is located away from the everyday living areas of your home — usually in the garage, basement, or utility room. Through a network of strong, lightweight tubing, the power unit connects to inlets strategically placed throughout your home. When you are ready to clean, attach the wand and cleaning tool onto the end of the hose. Open the inlet cover and insert the end of the hose into the inlet. Use the ON/OFF switch on the hose handle* to activate the power unit. As you vacuum, dirt and dust are transported to the power unit where they remain in a bag or in the debris pail.

NOTE: The rocker switch on the front of the power unit can be used to turn the power unit on.

Use the cleaning tools as you would for any other vacuum cleaner. Avoid picking up pine needles, coffee sticks and other similar objects. These kinds of objects may become lodged in the hose or tubing.

2. VACUUM POWER CONTROL

The hose handle* is equipped with a control ring to regulate the air flow. The control ring covers a "bleeder" hole. Open the hole to reduce the suction for cleaning draperies, small rugs, and other light fabrics. Some very thick, plush carpets with high density yarns also require reduced suction to make the nozzle easier to push. Be sure to close the control ring completely over the hole to produce the maximum power required for most other cleaning tasks.



3. WHEN TO CHANGE BAG OR EMPTY DEBRIS PAIL**

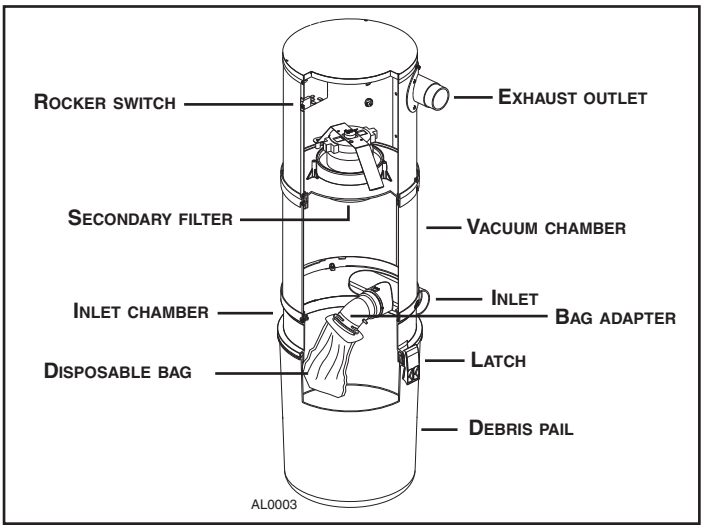
With a 6 U.S. Gallons capacity, under normal conditions the bag/debris pail requires changing/emptying approximately twice a year. If the bag/debris pail is filled, you will notice a complete loss of vacuum in the system. Unless this loss of vacuum is caused by a blockage in the system, changing the bag or emptying the debris pail will solve the problem.

NOTE: Even if not filled to capacity, if the bag seems tightly stretched when removing the debris pail, changing the bag will prevent it from tearing.

* The accessory kit is included only with the CXKIT450A model. See section 11 on page 10 for more details.

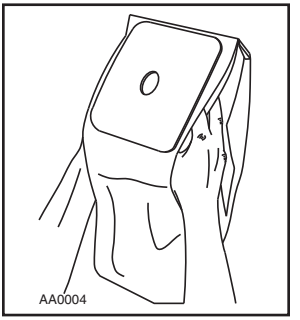
** In order to use the debris pail to collect debris, the optional permanent filter has to be installed in the power unit (see permanent filter instructions on page 5).

4. DETAILED VIEW

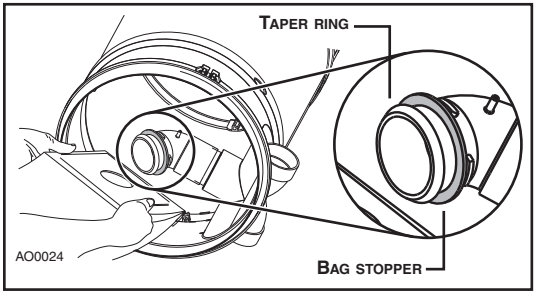


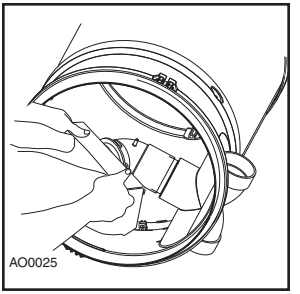
5. BAG REPLACEMENT

1. To remove the disposable bag, release both latches on sides of the unit by pulling out and then pushing up. Remove the pail from unit. Grasp the edges of the bags' collar and pull down. The bag will slide off easily. Do not pull on the bag.
2. Unfold new bag.
3. Grasp collar where indicated on the bag and insert over bag adapter. Be careful not to tear the bag. Ensure that the collar is positioned between the taper ring and the bag stopper on the bag adapter (see illustration below). Put the pail back in its place



NOTE : A set of 3 replacement bags (model 391C) may be purchased from you local Broan-NuTone Sales Outlet. To locate your nearest Broan-NuTone Sales Outlet, call toll free 1-888-882-7626.



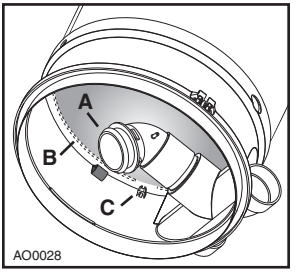


6. PERMANENT FILTER (OPTIONAL)

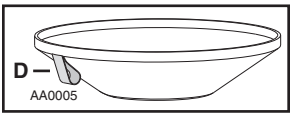
The optional permanent filter can be used with or without the disposable bag. This filter protects the motor and stops small particles from escaping to the outside of the power unit wihout the need to replace it. The filter can be removed by means of a pull-tab for cleaning (if need be). Be sure to reinstall properly. Appropriate location is critical to insure proper protection of the motor.

6.1 INSTALLING FILTER

Squeeze the filter in order to place it over the bag adapter (**A**). Let the filter prop against the unit wall by releasing the squeezing pressure. Make sure to place the rigid ring between the upper rib (**B**) and the three bottom posts (**C**) to ensure proper sealing.

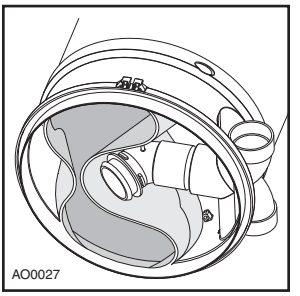


Make sure the filter is installed so that the pull tab (**D**) is accessible for future filter removal.



6.2 REMOVING FILTER

Remove debris pail and disposable bag. Using pull tab on edge of filter, pull and loosen filter from inlet chamber wall by squeezing it on itself. Then, carefully remove it from the unit.



6.3 CLEANING FILTER

Simply brush filter clean. If the filter is excessively soiled, wash in a mild detergent and let it dry completely before putting it back in its place.

CAUTION

Ensure that filter is completely dry before reinstalling.

NOTE: The permanent filter (model PF450) may be purchased from you local Broan-NuTone Sales Outlet. To locate your nearest Broan-NuTone Sales Outlet, call toll free 1-888-882-7626.

7. HOW TO EMPTY DEBRIS PAIL

To empty the debris pail, release both latches on sides of the unit by pulling out and then pushing up. Holding the pail by the latches, lower it from unit. Carry pail to trash receptacle and dispose of debris. Put the pail back in its place.

8. SECONDARY FILTER

A secondary safety filter, located at the top of the vacuum chamber provides protection against dirt being pulled into the motor if the disposable bag or permanent filter should accidentally be torn. This filter should be checked and cleaned if necessary, when replacement bag is installed or when optional permanent filter is removed for cleaning. Simply brush filter clean. If the filter is excessively soiled, wash in a mild detergent and let it dry **completely** before reinstalling.

CAUTION

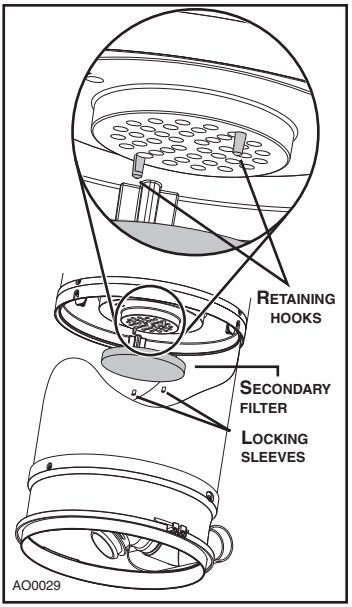
Operating the power unit without the secondary filter will void the warranty.

8.1 REMOVING FILTER

Remove debris pail and disposable bag or permanent filter. Remove both locking sleeves from the retaining hooks. Carefully pull filter down to remove.

8.2 REINSTALLING FILTER

To reinstall the secondary filter, reverse the steps described above.



NOTE: A replacement secondary filter (part no. 10941310) may be purchased from your local Broan-NuTone Sales Outlet. To locate your nearest Broan-NuTone Sales Outlet, call toll free 1-888-882-7626.

⚠ WARNING

When performing installation, servicing or cleaning the unit, it is recommended to wear safety glasses and gloves.

9. POWER UNIT INSTALLATION

9.1 LOCATING THE POWER UNIT

- Locate the power unit away from the general living area in an accessible location for cleaning and maintenance.
- Locate the power unit within 6 feet of a grounded electrical outlet. The power unit requires a 120 VAC power source.
- Do not locate the power unit close to a source of extreme heat (i.e.: water heater) or in an area with a high ambient temperature (i.e.: attic, furnace room).
- Do not locate the power unit where the temperature can drop below 0°C (32°F).
- If the power unit is located in a closet or a small utility room, make sure the area is well-ventilated (i.e.: with door louvers).

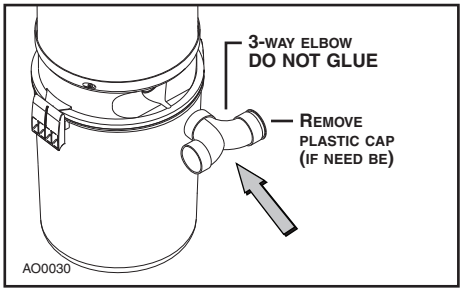
NOTE: Refer to NuTone website for information on tubing installation (www.nutone.ca).

9.2 MOUNTING POWER UNIT

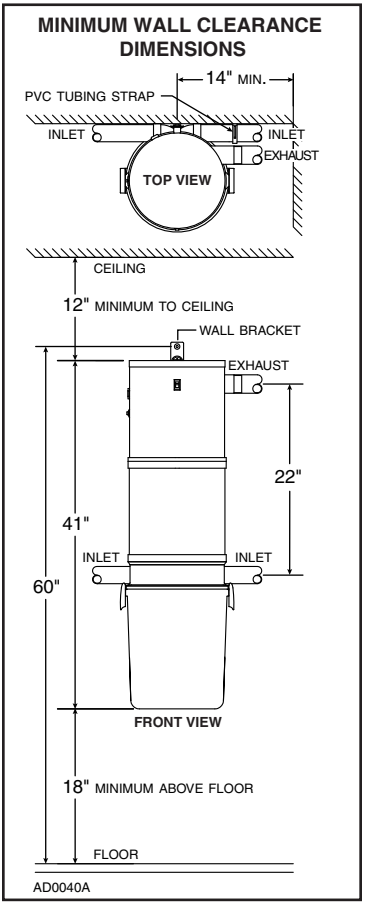
CAUTION

Make sure to assemble the wall mounting bracket with the screws directly onto a wall stud for a solid installation.

1. Carefully remove debris pail from power unit. Make sure bag is properly installed in power unit. Remove accessories and installation kit. Securely reinstall pail.
2. Install the 3-way elbow on the back of the power unit and press firmly (**do not glue**). Remove the plastic cap from the inlet opening only if your installation requires the connection into both inlets.

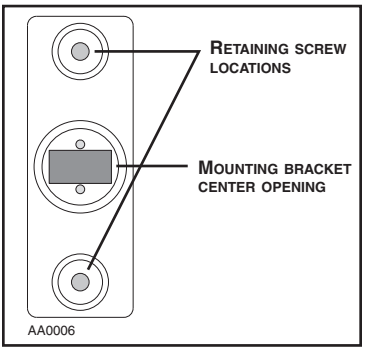


3. Install mounting bracket on a wall stud within 6 feet of a grounded electrical outlet, at the distances specified on illustration beside. Ensure that wall between mounting bracket and inlet is straight and leveled.



9. POWER UNIT INSTALLATION (CONT'D)

4. Use the mounting bracket as a template to mark the position of its screws. Drill the upper and lower screw holes into the stud using a 3/16" drill bit.



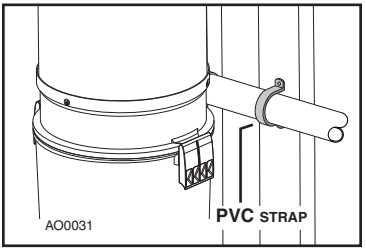
5. Using a Phillips screwdriver, secure the mounting bracket to the wall with 2 no. 14 x 2" screws (included). Make sure that the bracket is tight against the wall.

6. Hang the power unit by inserting its back hook into the center opening of its mounting bracket. Make sure hook is securely engaged in bracket. Secure the power unit to the mounting bracket, with the provided no. 6 x 3/8" screw and washer into the small remaining hole using a Phillips screwdriver (see illustrations beside).

7. Run house vacuum line up to the 3-way elbow behind the power unit. Secure house vacuum line to the appropriate 3-way elbow opening with PVC glue (**do not glue the 3-way elbow to the power unit**).
8. Connect muffler (if desired) and exhaust tubing to exhaust outlet on top of the power unit. The exhaust should not be vented into a wall, ceiling or concealed space in the house. Exterior vented exhaust lines should end using model V142 wall cap.

   NOTE: Exhausting the power unit to the outside is recommended for optimal performance but is not required.

9. Once everything is in place, secure the piping (near the elbow) to the wall using the included PVC strap.



10. GROUNDING INSTRUCTIONS

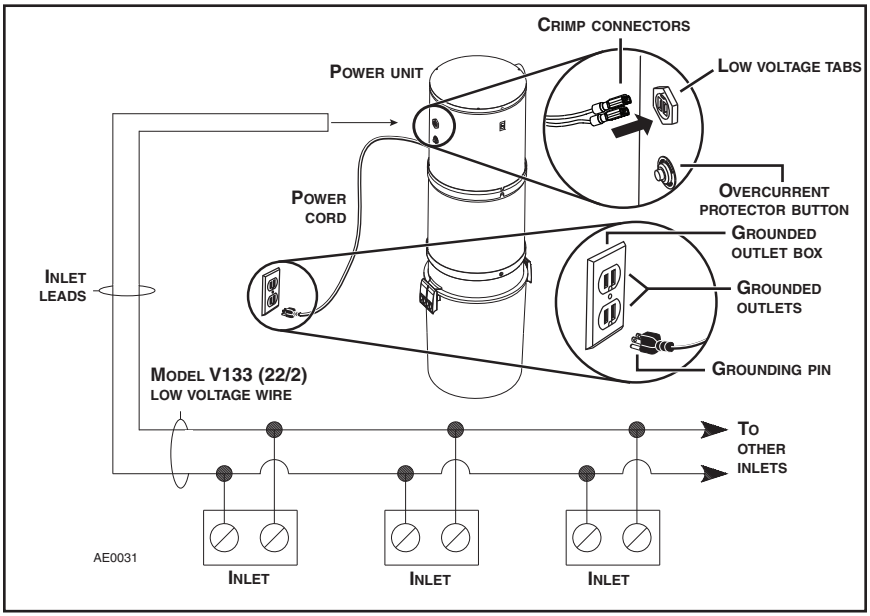
⚠ WARNING

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance — if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current, to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

This appliance is for use on a nominal 120-volt circuit and has a grounding attachment plug that looks like the plug illustrated below. Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adapter should be used with this appliance.

1. Using pliers, install both crimp connectors (included) to low voltage wire (22 gauge minimum, 2-conductor, model V133, not included).
2. Connect low voltage wire to tabs located on outside of the power unit.
3. The power unit is equipped with a 6-foot grounded cord. Plug cord into 120-volt grounded receptacle.



NOTE: INLET LEADS TO BE CONNECTED TO POWER UNIT LOW VOLTAGE TABS USING CRIMP CONNECTORS (INCLUDED) AND LOW VOLTAGE HARNESS.

11. ACCESSORY KIT

MODEL	ACCESSORY KIT
CX450	NOT included
CXKIT450A	Included

Accessory kit includes:

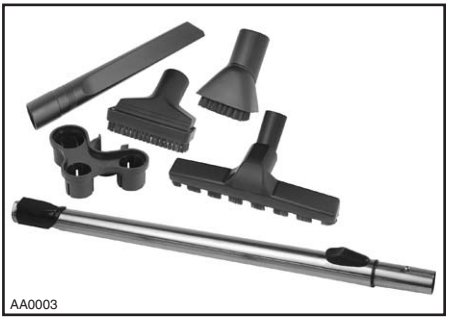
AA0007

- Multi-Surface tool for carpet, tile, wood and ceramic.

AA0008

- 30' Low-voltage crushproof hose with 360° rotating handle. Deluxe hose hanger included.

- Standard tool set:
  12" wide hard floor brush with swivel neck.
  Aluminum ratchet telescopic wand; from a collapsed length of 22" to an extended length of 39".
  Natural bristle upholstery tool.
  Square faced dusting brush.
  10" crevice tool with notched end.
  Clip-on caddy.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12. TROUBLESHOOTING GUIDE

PROBLEMS	POSSIBLE CAUSES	POSSIBLE REMEDY
1. Loss or decrease of vacuum occurs.	• The plastic cap is not installed on the unused inlet.	• Place the included plastic cap on the unused inlet opening.
	• Debris pail or disposable bag is completely full.	• Change disposable bag or empty debris pail as described on page 4. NOTE: Clean secondary filter if necessary.
	• Obstruction in the hose. A blockage in the hose can be determined by inserting the hose into any wall inlet and, while power unit is running, check each additional inlet for normal suction by holding the palm of your hand over the open inlet. If normal suction is felt at all other inlets, insert the hose into a second inlet. If the blockage still exists it is located in the hose. However, if the blockage does not occur when the hose is changed, the blockage is probably located in the tubing system leading to the original inlet.	• Disconnect the hose from the wall inlet and insert a blunt instrument into the hose — slightly smaller in diameter — such as a flexible garden hose. Push the garden hose through the cleaning system hose until the obstruction has been cleared.
	• Obstruction in the tubing system inside the walls.	• Insert hose end into any inlet with power unit running, place the palm of your hand over the opposite end of the hose. When you can feel the suction increase, hold your hand over the hose end for a few seconds and then quickly remove your hand. This procedure repeated several times should clear the obstruction. If the blockage is not cleared, contact your nearest Service Center.
	• Wall inlet cover not properly sealed.	• Check all wall inlet covers to be sure they are closed and sealed tightly.
2. Power unit does not start or stops suddenly.	• Defective inlet. Check other wall inlets.	• Replace defective wall inlet.
	• Power unit overcurrent protector has been activated.	• Turn the unit off by using the power switch on the unit. Check the overcurrent protector button located on the left side of the power unit (push to reset the system). Turn unit back on.
	• Blown fuse or tripped circuit breaker on house electrical panel.	• Replace fuse or reset circuit breaker on house electrical panel.
	• Thermoprotector has been activated.	• Turn the unit off by using the power switch on the unit. Wait 30 minutes to let the unit cool down. Turn unit back on.
	• Defective hose.	• Replace hose as required.
3. Power unit fails to stop when the hose is removed.	• An electrical short has occurred somewhere in the system.	• A complete check of all wall inlets and power unit low voltage control leads connections. Contact your authorized Service Center.

BROAN-NUTONE CANADA INC.

CENTRAL VACUUM POWER UNIT
LIMITED LIFETIME WARRANTY

Broan-NuTone Canada warrants to the original consumer purchaser that its central vacuum power unit will be free from defects in materials and workmanship for as long as you own your home in which it was originally installed with the exception of the motor and electronic components which will be warranted for three (3) years. The first year of this warranty covers the parts and labor in an authorized service center. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

During these time periods, Broan-NuTone Canada will, at its option, repair or replace the power unit or part without charge, which is found to be defective under normal use and service. THIS WARRANTY DOES NOT APPLY TO THE INSTALLATION OR THE PARTS USED IN THE INSTALLED TUBING SYSTEM. All central vacuum hoses, electric or air-driven brushes, filters, attachments and accessories are warranted for one (1) year from the original purchase date with the exception to consumables such as light bulbs and belts.

This warranty does not cover (a) normal maintenance and service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repair (other than by Broan-NuTone Canada or an authorized representative), faulty installation or installation contrary to recommended installation instructions.

The duration of any implied warranty is limited to the period as specified for the express warranty.

BROAN-NUTONE CANADA'S OBLIGATION TO REPAIR OR REPLACE, AT BROAN-NUTONE CANADA'S OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. BROAN-NUTONE CANADA SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE. Please do not return your unit to place of purchase. Please visit www.nutone.ca for your closest service center. You may also call 1-888-882-7626 for the name of an authorized representative in your area. This warranty supersedes all prior warranties.

To qualify for warranty service, you must notify Broan-NuTone Canada at the address or telephone number stated below. We will then forward you the authorized service depot in your area. You will be required to present evidence of the original purchase date.

Date of Installation _____ Builder or Installer _____

Model Number and Product Description _____ Serial number _____

IF YOU NEED ASSISTANCE OR SERVICE:
For the location of your nearest Broan-NuTone Canada Inc. dealer:
Dial Toll Free: **1-888-882-7626**

Please be prepared to provide:
Product model number • Date and proof of purchase • The nature of the difficulty

Broan-NuTone Canada Inc.
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www.nutone.ca

Product specifications subject to change without notice.